

Quartz - observing, collecting, discovering: the beginnings of a science

Quartz is both abundant and spectacular, and it quickly attracted the attention of amateur natural scientists, the mining community and researchers.

From observation to organised collection

From the Renaissance onwards interest was growing in the natural sciences, and this included mineralogy. «Curiosity cabinets» appeared, with collections of unusual items and works of art, including cut quartz. The larger collections were the predecessors of today's museums.

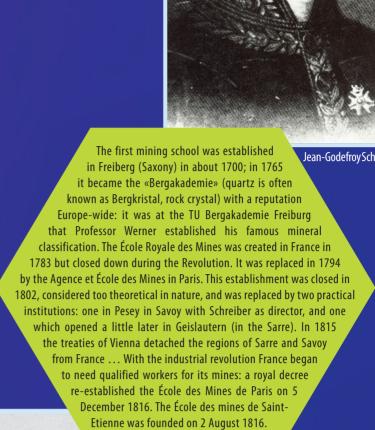
Mining and the start of the collections

From the 15th to the 18th century there was an expansion in metal mining. The word «quartz» is said to have been used by Saxon miners in Germany at the end of the Middle Ages to describe the worthless "gangue" mixed with the metal in the rock veins. The growing number of mines led to the founding of engineering schools in Saxony and France.

Investigations: the birth of a science

It was Steno in the 17th century who first suggested that crystals could grow, after examining the form of quartz crystals. In 1690 Huygens discovered an optical property of quartz which Bartholin had seen in calcite in 1669: a «double refraction» or double image. These and other discoveries led to the development of the science of mineralogy.

The term «Crystallography» (the description of crystals) was first used in 1723 by Capeller.





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